



Wild Rose

Passion • Integrity • Relationships • Service

Catholic Church

Demolition

Client: Wild Rose Co-operative 4818-51 St,
Camrose, AB. T4V 2R8

Site Address: (Former Catholic Church)
5010 48A Ave Camrose, AB.

Pre-bid Meeting: Aug 14th (Friday) 2020,
(Mandatory) 9AM

Closing Date: Aug 24th (Monday) 2020, 2PM

Bid Closing at: Wild Rose Co-operative
4818-51St, Camrose, AB.

Bidding Inquiries: 780-781-5997 Terry Maron

1. SUMMARY

- .1 The intent of this bid call is to solicit and receive formal offers to perform the following work:

Removal of structures and all vegetation, removal of any subterranean structure or Backfilling of the excavated areas, grading the land to a natural blended shape that restores the area to its natural state

2. BID SUBMISSION

- .1 Bids will be received before 2:00 pm local time on Monday, August 24th 2020 by: Wild Rose Co-operative
4818-51st
Camrose, AB.
Telephone: (780) 672-3107
Facsimile: (780) 672-5060
[Email: t.maron@wildrosecoop.ca](mailto:t.maron@wildrosecoop.ca)
- .2 For bid closing purposes, the official time of receipt of bids shall be as determined by the clock used to time and date stamp bids upon submission to the above location.
- .3 Submit bids on forms supplied with the Bid Documents obtained from the address specified in 2.1
- .4 Oral, telephoned or fax bids will not be accepted nor acknowledged.

3. INVITATION TO BID

- .1 This bid call is open.

4. BID DOCUMENTS

- .1 The Bid Documents consist of these Specifications, the Drawings, if any, information documents, if any, and addenda, if any.

5. BID AND CONTRACT FORM

- .1 Complete Bid and Contract Form by typing or legibly printing, and signing, in spaces provided.
- 2 Any required information that is omitted or illegible, any alterations to the text, or any conditions added on or submitted with the Bid and Contract Form may cause the bid to be declared invalid and rejected.

6. LIST OF SUBCONTRACTORS

- .1 Complete Section 00440 - List of Subcontractors and submit together with the Bid Form. Alternatively, Bidders may, at their option, choose not to submit Section 00440 together with their Bid Form prior to the bid closing time, in which case the following conditions shall apply:
 - .1 Completed Section 00440 shall be submitted, separate from the Bid Form, no later than two hours after the bid closing time, to the address or fax number specified in 2.1.
 - .2 If, upon expiry of the two hour period after the bid closing time, a Bidder has failed to submit a properly completed Section 00440, that bid may be declared invalid and rejected.
- .2 Any required information that is omitted or illegible, any alterations to the text, or any conditions added on or submitted with the List of Subcontractors [and Cost Breakdown] may cause the bid to be declared invalid and rejected.

7. BID MODIFICATION

- .1 A submitted bid may be modified provided the modification:
 - .1 is in the form of a fax transmittal received at the fax number specified in 2.1, before the bid closing time, and
 - 2 states the name of the Bidder, the nature of the modification, and is signed by an authorized person.
- 2 For bid closing purposes, the official time of receipt of faxed bid modifications shall be the time of receipt automatically printed on the fax transmission by the receiving fax machine.

- .3 When submitting a modification directing a change in a bid amount, do not reveal the original amount nor the revised amount. State only the amount to be added to or deducted from an original bid amount.
- .4 When submitting a second or more modifications related to a single bid amount, ensure that there is no ambiguity as to the intended bid price.
- .5 The Owner will assume no responsibility or liability for the content of modifications, or for modifications that are, for any reason, delayed, illegible, unclear as to intent, ambiguous, contrary to these instructions, or otherwise improperly received. The Owner may disregard improperly received modifications.

8. BID WITHDRAWAL AND ACCEPTANCE

- .1 At Bidder's request, a bid may be withdrawn at any time before the bid closing time.
- .2 A bid may not be withdrawn at or after bid closing time and shall be open to acceptance by the Owner until:
 - .1 Some other Bidder has entered into a contract with the Owner for performance of the Work, or
 - .2 60 days after the bid closing time, whichever occurs first.
- .3 The lowest or any bid will not necessarily be accepted, and the Owner may reject any and all bids.
- .4 The Owner may negotiate contract terms with the Bidder submitting the lowest valid bid, provided that the negotiated changes to the Bid Documents result in either no change to the bid price or a reduced bid price. Such changes may be formalized in the form of a Post-Bid Addendum that, upon written acceptance by the Bidder, shall form part of the Contract Documents.

9. BID OPENING

- .1 Bids will be opened in private.

10. IRREGULARITIES

- .1 A bid that is informal, incomplete, qualified, non-compliant with the requirements of the Bid Documents, or otherwise irregular in any way, may be declared invalid and rejected.

- .2 The Owner may accept or waive a minor and inconsequential irregularity, or where practicable to do so, the Owner may, as a condition of bid acceptance, request a Bidder to correct a minor and inconsequential irregularity with no change in bid price.
- .3 The determination of what is, or is not, a minor and inconsequential irregularity, the determination of whether to accept, waive, or require correction of an irregularity, and the final determination of the validity of a bid, shall be at the Owner's sole discretion.
- .4 Discrepancies between words and figures will be resolved in favor of words.

11. GST INCLUDED

- .1 Bidders shall include GST separately in their bid prices.

12. EXAMINATION OF BID DOCUMENTS AND SITE

- .1 Bidder shall, before submitting a bid:
 - .1 examine and read the Bid Documents thoroughly,
 - .2 visit site and its surroundings and other locations to become familiar with local and other conditions affecting the work,
 - .3 consider the effect of regulatory requirements applicable to the work,
 - .4 study and correlate Bidder's observations with the Bid Documents,
 - .5 immediately notify Owner of all perceived omissions and discovered conflicts, errors and discrepancies in the Bid Documents, and
 - .6 be satisfied that Bidder understands the Bid Documents and is competent to undertake and complete the work.

13. PRODUCT SUBSTITUTIONS

- .1 Where products are specified by a proprietary specification, and substitutions are permitted; Bidders may base their bids on a named product or manufacturer or on unnamed substitutions, subject to the requirements specified for substitutions in the General Conditions.
- 2 During the bid period, it is the sole responsibility of each Bidder to determine whether a substitution meets the requirements specified in the General Conditions.

- .3 The Owner will not consider requests for approval of substitutions from Bidders during bid period. Substitutions will be evaluated and approved or rejected by the Owner after contract award.

14. INTERPRETATION AND MODIFICATION OF BID DOCUMENTS

- .1 Submit questions about the meaning and intent of the Bid Documents to the person identified under "Inquiries".
- .2 If an inquiry requires an interpretation or modification of the Bid Documents, the response to that inquiry will be issued in the form of a written Addendum only.
- .3 Submit inquiries as early as possible in the bid period. If an inquiry requires an interpretation or modification of the Bid Documents, but is received too close to the bid closing time to permit issuance of an Addendum, the Owner may be unable to respond to that inquiry.
- .4 Any replies to inquiries or interpretations or modifications of the Bid Documents made verbally, by e-mail, or by any manner other than in the form of a written Addendum, shall not be binding.

15. ADDENDA

- .1 During the bid period, Addenda will be issued via fax to all parties recorded by the Owner as having received Bid Documents from the address specified in 2.1.
- .2 Addenda shall become part of the Bid and Contract Documents.
- .3 Each Bidder shall ascertain before bid submission that it has received or read all Addenda issued by the Owner.

16. INQUIRIES

- .1 Direct all other inquiries during bid period to:

Terry Maron
4818 51st,
Camrose, Alberta,
T4V 2R8

Telephone: (780) 781-5997
E-mail: t.maron@wildrosecoop.ca

END OF SECTION

**Demolition
Catholic Church
Camrose, AB.
Stipulated Price Bid & Contract Form**

Page 1

TO: Wild Rose Co-operative
Association, Ltd 4818-51st,
Camrose, AB. T4V 2R8

PROJECT NAME: Demolition.
Catholic Church
Camrose, Alberta.

We, the undersigned, hereby agree to carry out the Work of the Contract in accordance with the Bid Documents, for the stipulated price of:

_____ Dollars (\$ _____)
Total in words (excluding GST) _____ total in figures

GST amount _____ Dollars (\$ _____)

We agree to complete the Work in accordance with in the suggested Schedule.

This bid is open to acceptance by the Owner until 60 days after the bid closing time. This 'Bid and Contract Form', together with and subject to all the provisions of the Bid Documents shall, when accepted and signed by the Owner, constitute a binding contract between the Contractor and the Owner.

Executed this _____ day of _____ 2020

BIDDER: _____
_____ Business name (print ortepe)
_____ Address

Signature of Bidder's authorized representative

Name and status of person signing above
(Print or type) _____ witness's signature or
corporate seal

Accepted and executed this _____ day of _____ 2020, by
the Owner or their authorized representative.

Signature _____ witness's signature

Name and title _____ expenditure officer.

1. SUB-CONTRACTORS

.1 LIST OF SUBCONTRACTORS

All Sub-Contractors to be listed below indicating name of legal entity, contact information and the trade for which they have been retained.

Sub-Contractor legal Company name	Contact name	Contact Phone #	Trade

End of Section.

1. WORK OF THIS CONTRACT

- .1 Work of this Contract comprises the following:
 - .1 Completion of all required cutoffs and isolation.
 - .2 Securing of site
 - .3 Removal of the entire structure, including foundations, sidewalks, pads.
 - .4 Backfilling of excavated areas and blending site to surrounding grade.
 - .5 Maintaining current condition of existing parking area.
 - .6 Execute work with least possible interference or disturbance to adjacent properties.
 - .7 Provide temporary security measures approved by Owner.

2. CONTRACT TIME

- .1 Complete the Work within the time specified by owner - Stipulated Price Bid and Contract Form.

3. RESTRICTIONS ON CONTRACTOR'S USE OF PREMISES

- .1 Contractor's use of premises should not be restricted. Noise bylaws to be strictly followed.
- .2 Cooperate and coordinate the work with the Owner and City of Camrose authorities to minimize conflict and disturbance of neighbours.

4. COORDINATION

- .1 Where one part of the work is dependent on other components, schedule and coordinate construction activities in the sequence required to obtain the best results.

5. PROJECT MEETINGS

- .1 Prior to start of any work, a pre-construction meeting shall be held by the Owner and the Contractor to examine and discuss the Work of the Contract.
- .2 Schedule regular construction progress meetings, at the site, every two weeks for the duration of the contract, or as otherwise directed by Owner.

6. WORK SITE SAFETY - THIS CONTRACTOR IS "PRIME CONTRACTOR"

- .1 The Contractor shall, for the purposes of the Occupational Health and Safety Act (Alberta), and for the duration of the Work of this Contract:
 - .1 be the "prime contractor" for the "work site."
 - .2 everything that is reasonably practicable to establish and maintain a system or process that will ensure compliance with the Act and its regulations, as required to ensure the health and safety of all persons at the "work site."
- .2 The Contractor shall direct all contractors, sub-subcontractors, other contractors, employers, workers and any other persons at the "work site" on safety related matters, to the extent required to fulfill its "prime contractor" responsibilities pursuant to the Act, regardless of:
 - .1 Whether or not any contractual relationship exists between the Contractor and any of these entities, and
 - .2 Whether or not such entities have been specifically identified in this Contract.
- .3 The Owner does not anticipate that there will be any contractors, other than those performing the Work of this Contract, engaged in work at the "work site" during the performance of the Work of this Contract.

7. SUBMITTALS

- .1 W.C.B. Submittals: Submit certificate of an account with Workers Compensation Board prior to commencement of Work. Submit letter of clearance with application for payment of holdback, if applicable, and with application for final payment.
- .2 Work Schedule: Prior to start of work, submit a schedule indicating scheduled start and completion dates for each of the activities in the reclaiming of the site.

8. QUALITY CONTROL

- .1 Owner **may** employ services of independent testing agencies to establish if work complies with Contract Documents. Owner will appoint and pay for services of such testing agency.
- 2 Where tests or inspections, by Owner appointed testing agency, indicate work is not in accordance with the Contract Documents, additional tests or inspections, as Owner may require, to verify acceptability of corrected work, shall be paid for by Contractor.

9. TEMPORARY FACILITIES AND CONTROLS

- .1 Provide construction facilities and temporary controls in order to execute the work expeditiously.
 1. Furnish all necessary transportation, ramps, ladders, handrails, scaffolding, forms, labour, tools and mechanical appliances, hoists, cranes, machinery etc. Services and materials to execute the work.
 2. The contractor shall obtain permits demolition and for any roadway, sidewalk or lane closures, hoarding or fencing and for the placement of dumpsters, sheds, trailers materials etc: apply and pay for any such required permits.
 3. Remove all items employed during the work from site at completion.
 4. Provide temporary drainage and pumping facilities in order to keep excavations and the site generally free from standing water.
 5. Obtain permission for the discharge of drainage water
 6. Provide sanitary facilities for workers in accordance with local health authorities and the Occupational Health and Safety Act.
 7. Maintain sanitary facilities in a clean condition
 8. Maintain the work site in a clean condition free from accumulations of waste and debris
 9. Minimize blowing dust and dirt at all times.
 10. Remove waste at regular scheduled times.
 11. Provide adequate garbage bins on site to contain waste material and construction debris, littering of the site is not permitted.
 12. Dispose of waste materials and construction debris where directed by the local authority having jurisdiction. Obtain and pay for disposal permits.
 13. Burning of waste materials and construction debris is not permitted.
 14. Indiscriminate disposal of concrete on site is not permitted.
 15. Implement precautions to prevent depositing of construction debris on sidewalks and roadways.
 16. Provide, erect and maintain fences, barricades, covered ways and hoarding as required by and in accordance with Part 8 of the Alberta Building Code.

17. Erect temporary panelized chain link fence to a height of six feet to the perimeter of the site. Fence to include lockable gate closures for movement of construction vehicles and personnel.
18. Perimeter fence to be signed at twenty feet intervals “Danger – Construction Site” “Access by Authorized Persons Only”.
19. Contractor to make arrangement for parking and off loading of materials.
20. When movement of materials and equipment to site is disruptive to pedestrian or vehicular traffic, contractor to provide flag persons or barricades and implement other safety precautions as required and in accordance with Part 8 of the Alberta Building Code.
21. Protect property during the performance of the work be responsible for all damages incurred due to improper or inadequate protection.
22. Should damages occur, contractor to make good to original condition, with no additional costs to Owner.
23. Implement fire safety measures during the performance of the work as required by and in accordance with Part 8 of the Alberta Building Code.
24. Handle combustible materials in a safe manner.
25. Remove combustible debris from site daily.
26. Be responsible for site security after work hours and during holidays
27. Workmanship shall be the best quality, executed by workers experienced and skilled in their respective duties, do not employ any ‘unfit’ person or persons unskilled in their required duties.
28. Materials removed during the demolition shall be the property of the contractor.

10. CONTRACT CLOSE-OUT

1. When the work is substantially performed, remove surplus materials, tools, construction machinery and equipment that is not required for the performance of the remaining work.
2. Prior to the issue of a Certificate of Substantial performance, carefully inspect the worksite to ensure it is complete and that major and minor deficiencies are complete, defects are corrected and the site is clean.
3. Notify the owner of the complete status and request an inspection.
4. During inspection a list of deficiencies will be generated, the contractor shall address all listed deficiencies.
5. Once the list of deficiencies is corrected the contractor can request a Construction Completion Certificate.

END OF SECTION

1. APPLICATIONS FOR PROGRESS PAYMENTS

- 1.1 Submit with each Application for Progress Payment a Summary of Waste Generated by the Project:
 - .1 Waste Management project update, and a Waste Audit.
 - .2 Submit the following information on a form acceptable to the Owner:
 - .1 The amount in tonnes or m3 (tons or cubic meters) of material land filled from the Project,
 - .2 The identity of the landfill, and
 - .3 The total disposal cost. Include manifests, weight tickets, receipt, and invoices.
- 1.2 For each material recycled, reused, or salvaged from the Project, the amount tonnes or m3 (tons or cubic meters), the date removed from the jobsite, the receiving party, the transportation cost, the amount of any money paid or received for the recycled or salvaged material, and the net total cost or savings of salvage or recycling each material.
- 2.2 Failure to submit this information shall render the Application for Payment incomplete and shall delay Progress Payment.
- 2.3 **Tipping fees shall be paid directly to landfill facility by Wild Rose Cooperative.**

2. STORAGE, HANDLING AND PROTECTION

- .1 Store, materials to be reused, recycled and salvaged in locations as directed by Owner.
- .2 Unless specified otherwise, materials for removal become Contractor's property.
- .3 Separate non-salvageable materials from salvaged items. Transport and deliver non-salvageable items to licensed disposal facility.
- .4 Prevent contamination of materials to be recycled and salvaged and handle materials consistent with requirements for acceptance by designated facilities.
- .5 Control surface drainage from damaging or effecting mechanical or electrical components.

3. SCHEDULING

- .1 Coordinate work with other activities at site to ensure timely and orderly progress of the work.

4. RESOURCES

- .1 Information on recyclers specializing in specific categories of materials may be obtained during normal office hours from:
Alberta Environment
Construction, Renovation and Demolition Waste Reduction
Recycling Branch
Recycle Info Line
Phone: 1-800-463-6326

5. WASTE MANAGEMENT PLAN

shall contain the following:

- .1 Analysis of the proposed jobsite waste expected to be generated, including types and quantities.
- .2 Landfill options: The name of the landfill where trash will be disposed of, the applicable landfill tipping fees, and the projected cost of disposing of all Project waste in the landfill.
- .3 Alternatives to Landfill: A list of each material proposed to be salvaged, reused or recycled during the course of the Project, the proposed local market for each material, and the estimated net cost savings or additional costs resulting from separating and recycling versus landfill each material; "Net" means that the following have been subtracted from the cost of separating and recycling:
 - .4 Revenue from the sale of recycled or salvaged materials.
 - .5 Landfill tipping fees saved due to diversion of materials from the landfill.

.4 The list of these materials is may include, the following materials:

- .1 Clean dimensional wood.
- .2 Land clearing debris.
- .3 Aggregate including: concrete, asphalt, and masonry.
- .4 Metals from banding, steel stud trim, ductwork, piping, rebar, roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze
- .5 Plastic sheeting and packaging, where recycling programs are available.
- .6 Rigid plastic foam insulation, where recycling programs are available.

5. DISPOSAL OF WASTES

- .1 Burying of trash and waste materials on site is prohibited.
- .2 Disposal of any waste, volatile materials, mineral spirits, oil, paint thinner, into the ground, waterways, storm or sanitary sewers is prohibited.
- .3 Keep records of construction waste including:
 - .1 Number and size of bins.
 - .2 Waste type of each bin.
 - .3 Total tonnage generated.
 - .4 Tonnage reused or recycled.
 - .5 Reused or recycled waste destination.
- .4 Remove materials from deconstruction as deconstruction/disassembly Work progresses
- .5 Prepare project summary to verify destination and quantities on a material-by-material basis as identified.

6. FIRES

- .1 Fires or burning of trash and waste on site is not permitted.

7.. APPLICATION

- .1 Do work in compliance with your work management plan.
- .2 whether landfilled, reused, salvaged, recycled, or otherwise disposed of, in accordance with appropriate regulations and codes.

8. CLEANING

- .1 Remove tools and waste materials on completion of work, and leave work area in clean and orderly condition.
- .2 Clean-up work area as work progresses.
- .3 Source separate materials to be reused/recycled into specified sort areas.

END OF SECTION

Name of Company	Name of Contact Person	Telephone No
Project Site / Locations	Project Type <input type="checkbox"/> Construction <input type="checkbox"/> Demolition	Project Size (in square metres)

	Pre-Project	Project Updates	
		For Period	to
		yyyy-mm-dd	yyyy-mm-dd
Material	Estimated Generation	Recycled/Salvaged/Disposed	Facility
Total	0.00	0.00	

Signature	Title	Date
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Infrastructure/BMS-Form 01 74 19B-A eForm V2016-06-16

Explanatory note:

Column 1 - "Material" -- enter materials targeted for recycling or salvage and include a category for waste materials requiring disposal

Column 2 - "Estimated Generation" -- enter estimated volumes (cubic metres.) or quantities (metric tonnes) of recyclable and waste materials generated and state number of salvageable items

Column 3 - "Recycled/Salvaged/Disposed" -- enter volumes (cubic metres.) or quantities (metric tonnes) of materials recycled and disposed and state number of items salvaged

Column 4 - "Facility" -- enter end-destination of recycled, salvaged and disposed materials.

1. GENERAL

1.2 REFERENCE DOCUMENTS

- .1 CSA S350-M1980 (R2003), Code of Practice for Safety in Demolition of Structures.

1.3 EXISTING CONDITIONS

- .1 Take over structures to be demolished based on their condition at date and time of bid closing.
- .2 When unidentified subsurface foundations, tanks or services are encountered during the work, immediately cease operations, notify the Owner, and wait for instruction.

1.4 SUBMITTALS

- .8 Where required by authorities having jurisdiction, submit for approval, drawings, diagrams, details and supporting data clearly showing sequence of demolition, removal work of buildings, supporting structures and underpinning. Provide Owner with copy of such drawings.
- .9 Obtain all required permits from utility companies, municipalities and property owners.

1.5

- .1 Provide required bracing, shoring and underpinning to prevent movement, settlement or
- .2 damage of adjacent structures, services, walks, paving, trees, landscaping, adjacent grades.
- .3 Take precautions to support structures. When safety of building being demolished, adjacent structures or services appear to be endangered, cease operations and inform Owner immediately.
- .4 Do not proceed with demolition work when prevailing weather forecasts indicate, or weather conditions constitute, a hazard to the workers and site.

Temporarily suspended work that is without continuous supervision, shall be closed to prevent entrance of unauthorized persons.

1.6 SALVAGEABLE AND RECYCLABLE MATERIALS

- .1 Except where otherwise specified, all materials indicated or specified to be permanently removed from the Place of the Work shall become Contractor's property. Maximize to the fullest extent possible, salvage and recycling of such materials, consistent with proper economy and expeditious performance of the Work.

A current listing of recyclers specializing in specific categories of materials may be obtained during normal office hours from:

Alberta Environment
Recycling Branch
Recycle Info Line
Phone: 1-800-463-6326
e-mail: wastenot@env.gov.ab.ca

1.7 CONCRETE RUBBLE

- .1 Deliver demolished concrete and brick rubble to the closest facility accepting concrete and masonry rubble. Ensure rubble complies to the size standards that the recycler will accept, prior to delivery.

2. EXECUTION

2.1 MATERIALS TO BE RETAINED BY OWNER

- .1 None

2.2 EXISTING SERVICES

- .1 Disconnect electrical and telephone service lines entering buildings to be demolished. Post warning signs on electrical lines and equipment which must remain energized to serve other properties during period of demolition.
- .2 Treat existing piped services as follows:
 - .1 Disconnect and cap mechanical services in accordance with requirements of local authority having jurisdiction.
 - .2 Natural gas supply lines shall be removed by gas company or by qualified tradesman in accordance with gas company instructions.
 - .3 Remove sewer and water lines to property line and cap to prevent leakage. Do not disrupt active or energized utilities traversing premises.

2.4 BURIED TANKS

- .1 None known at this time..

2.5 DEMOLITION

- .1 Carry out demolition work in accordance with CSA S350, unless otherwise specified.
- .2 Demolition by explosives or other methods to initiate a "Rapid Progressive Failure" of a structure will not be allowed without written permission of the Owner and all authorities having jurisdiction
- .3 Completely demolish structures and appurtenances in an orderly and careful manner.
- .4 Demolish basement and foundation completely.
- .5 Break through slabs and remove from site
- .6 At the end of each day's work, leave work in a safe condition so that no part is in danger of toppling or falling.
- .7 Demolish in a manner to minimize dusting. Keep dusty materials damp. Do not cause contaminated run off or icing.

2.6 BACKFILL

- .1 Backfill demolished building excavation to adjacent surface elevation using common materials approved by the owner to a density of at least that of the surrounding soils.
- .2 Place in uniform layers not exceeding 150 mm compacted thickness.
- .3 Small pieces no greater than 100 mm of concrete and masonry broken from demolition work may be used as backfill in open excavations provided voids are filled. Keep demolition fill minimum 450 mm below finished grade.
- .4 Fill materials and areas to be filled shall be free of standing water, frost, frozen materials, trash and debris.

2.7 RESTORATION

- .1 Immediately as the work progresses, repair all vibration and excavation damages to existing adjacent properties and active underground services.
- .2 Upon completion of work, remove debris, trim surfaces and leave work site clean.
- .3 Reinstate areas and existing works outside area of demolition to conditions that existed prior to commencement of work.

2.8 DISPOSALS

- .1 Remove salvageable and recyclable materials as the work progresses and transport immediately from the site.
- .2 Selling or burning materials on site is not permitted.

- .1 **END OF SECTION**

1.1 PROTECTION

- .1 **Remove** trees, shrubs and other vegetation.
- .2 Protect power poles and exposed lines during clearing operations from damage.
- .3 Protect parking bosidewalks, roadways and other existing site improvements that are to remain, from damage.
- .4 Protect bench marks and reference lines from damage.

2. Execution

2.1 TIMBER SALVAGING

Not used

2.2 CLEARING

- .1 Remove trees, stumps, shrubs, vegetation, loose surface rock, site improvements and other obstructions interfering with the Work or required to be removed.
- .2 Dig out and remove trunks and root systems where no further excavation work is required.

2.3 DISPOSAL

- .1 Debris may NOT be burnt on-site.

END OF SECTION

1.1 EXCAVATION LEVELS

- .1 Notify Owner if unsuitable bearing materials are encountered at indicated elevations. Carry excavation deeper and replace excavated material with suitable materials as directed by Owner.
- .2 Notify Owner if bearing conditions are fulfilled at elevations above those indicated. Adjust excavation elevations if and as directed by Owner.
- .3 Adjustments in levels, if directed by the Owner, will be considered a change in the Work and will be valued in accordance with the General Conditions of Contract.

2. Execution

2.1 PREPARATION

- .1 Notify Owner minimum 2 days prior to beginning excavating operations.
- .2 Prior to commencing excavation:
 - .1 Contact all affected utility companies regarding exact location and current status of all utilities, voltage of underground and overhead power lines and pressure of natural gas lines.
 - .2 Notify Owner if any utility lines have been omitted from or incorrectly indicated on Drawings.
 - .3 Identify known underground utilities. Stake and flag locations. Identify and flag surface and aerial utilities.
 - .4 Notify utility company to remove and relocate utility lines.

- .3 Expose building connections service connections and utilities to be crossed to confirm horizontal and vertical alignment of existing utilities.
- .4 Expose existing utility lines by hand excavation to confirm location before machine digging within 600 mm of lines.
- .5 Maintain and protect existing above and below grade utilities which pass through work area. Protect active utility lines exposed by excavation, from damage. Hand excavate to final elevations and dimensions.
- .6 Where existing pipes, ducts or other underground services intersect a trench, support trench in a manner approved by Utility.
- .7 Where existing overhead line poles are adjacent to excavations, temporarily support poles in a manner approved by Utility.

2.2 SHORING AND BRACING

- .1 If required to provide safe working conditions and to prevent cave-ins and loose soil from falling into excavations, protect excavations by shoring, bracing, sheet piling, underpinning, or other suitable methods.
- .2 Underpin adjacent structures which may be damaged by excavation work, including service utilities and pipe chases or cuts.

2.3 DEWATERING

- .1 Maintain excavations free of water. Provide pumps, piping, temporary drains, trenches, sumps, and related equipment to remove water.
- .2 Do not use sanitary sewers or private property for discharge of water.
- .3 Obtain permission for location of discharge.

2.4 EXCAVATING

- .1 Strip topsoil from areas to be excavated or filled.
- .2 Do not excavate under wet conditions or when such conditions are anticipated.

2.5 MATERIAL STORAGE

- .1 Excavated topsoil, acceptable and required for use under this Contract: Stockpile on site
- .2 Native excavated material, other than topsoil, acceptable and required for use as fill material under this Contract: Stockpile on site until required.
- .3 Stockpile locations shall be subject to Owner's approval.

2.6 DISPOSAL OF EXCESS AND WASTE MATERIAL

- .1 Excavated topsoil, acceptable but in excess of that required for use under this Contract: Stockpile at designated topsoil storage area on site or spread as directed by Owner.
- .2 Native excavated material, other than topsoil, acceptable but in excess of that required for use as fill material under this Contract: Remove from site.
- .3 Unacceptable excavated topsoil, unacceptable native excavated material, waste material, trash and debris: Remove from site and ensure proper disposal.

2.7 BACKFILLING

- .1 Ensure areas to be backfilled are free of debris, snow, ice, water and that surfaces are not frozen. Do not backfill over porous, wet, or spongy subgrade surfaces.
- .2 Backfill systematically, as early as possible, to allow maximum time for natural settlement.

2.8 COMPACTION

- .1 Compact fill materials using only mechanical methods. Do not use hydraulic methods.
- .2 Do not perform compaction using vehicles and other equipment not designed for compacting.

END OF SECTION

1. General

1.2 SECTION INCLUDES

- .1 This Section includes requirements for all, backfilling, filling, compacting and grading
 - .1 building and structures excavating and backfilling, trench excavating and backfilling. Backfill excavations and fill to required subgrade
 - .1 elevations using fill materials specified in Site Filling Schedule.
 - .2 Place fill materials in layers not exceeding loose thickness specified in Site Filling Schedule.

2.2 GRADING

- .1 Make changes in grade natural. Blend slopes into level areas.
- .2 Grade and shape surfaces within following tolerances from subgrade elevations indicated:
- .3 Landscaped areas: plus or minus 50 mm.

2.3 PREPARATION OF FINAL GRADE

- .1 Remove all surface debris, stones in excess of 50 mm diameter, soil clods, vegetation, roots, grass and weeds, litter and other foreign debris. Dispose of collected materials off site.
- .2 Float and leave surfaces smooth, uniform, and sufficiently firm against deep foot printing with a fine loose texture. Finish surface shall be clean, even and free from irregular surface changes.
- .3 On larger surfaces, use hydraulic power box rake or similar mechanical equipment that will effectively and efficiently remove soil lumps, rocks and debris; fill and level low areas; and correct other grading deficiencies.
- .4 Do not cover catch basins, valve covers or manholes. Cut smooth falls to catch basin rim, finish flush. Provide smooth transitions at top and bottom of slopes.
- .5 Grading work shall not be performed when moisture content of soil is such that excessive compaction will occur, or when soil is so dry that clods will not break readily or dust will form in the air. Apply water as required to prevent the formation of an airborne dust nuisance and to provide ideal soil moisture content for tilling.
- .6 Ditches: finish ditches and swales to ensure proper flow and drainage. Conduct final rolling operations to produce a hard, uniform and smooth cross-section.

2.4 ACCEPTANCE

- .1 The Owner will inspect soil in place and determine acceptance of material, depth and finish grading.

2.5 CLEAN-UP

- .1 Clean up, immediately, any soil or debris spilled onto roads, walkways and other finished surfaces. Keep site clean and tidy at all times.
- .2 Restore stockpile soil areas to a clean and fine graded condition in preparation for final landscaping. Obtain the Owner's approval.
- .3 Excess topsoil not required for landscape use on site shall be removed by Contractor as directed by the Owner.

1. Execution

1.2 RESTORATION, GENERALLY

- .1 Restore all existing areas and sitework damaged or disturbed due to earthwork or other work of this Contract, back to their original condition and to finish grades to match surroundings.

1.3 RESTORATION OF LANDSCAPED AREAS

- .1 Remove topsoil and replace with suitable soil to achieve compaction
- .2 Restore gravel areas on existing lot upon completion of backfilling and final grading

1.4 RESTORATION OF CONCRETE PAVING, CURBS AND GUTTERS

- .1 Restore sidewalks, curbs and gutters.

3.5 RESTORATION OF ASPHALT PAVING

- .1 Compact fill material to a level 300 mm below finished surface grade.
- .2 Place fill material to level of underside of existing asphalt.
- .3 Where edges of existing paving have become ragged, cut paving to form a straight line prior to placing new paving.
- .4 Thoroughly clean edges of existing paving and coat with bituminous bonding agent prior to placing asphalt.
- .5 Place asphalt in maximum 75 mm lifts.
- .6 Compact new asphalt paving using a steel wheel roller with a minimum weight of 8 tonnes.

RESTORATION OF GRAVEL SURFACING

- .1 Replace disturbed gravel surfacing withfill material to thickness equalling that of existing gravel.
- .2 Grade gravel to match existing elevations and surfaces.
- .3 Compact gravel to Maximum Dry Density.

END OF SECTION